Job Description

Team Lead Embedded Software Engineer

Responsibilities:

1) Analyze customer requirements and break down to software level to define software functionality and control strategy on requirement specification and verify requirement implementation based on requirement management process.
2) Responsible for application SW control strategy, functionality development for LV and HV inverter based on ARM core based MCU hardware platform, e.g. FSM, FOC motor control and compensation algorithm, safety protection, temperature estimation model, diagnostic, etc. implementation, optimization with MATLAB/Simulink/Stateflow tool chain and embedded into software architecture.
3) Responsible for application SW unit modeling and MIL test, setup test model to verify sub-function, C code generation and verify test, integration with target SW, debugging, calibration, and working with SW test engineer to develop test cases and setup the test environment to test the SW.
4) Responsible for SW interface setup and integration with inverter basic software, support basic SW development, e.g. communication, safety etc.
5) Responsible for working with system engineer to support customer.
6) Responsible for documenting the information during SW development process and documentation management.
7) International and Domestic travel required.

Education:

Master's degree required, PhD preferred Engineering degree in Electronics, Electrical, Automotive (Control SW Direction), Computer science or relevant technical area.

Skills:

1) Advance skill on SW development tool chain, Compiler, debugger, GUI, CANape, etc.
2) Advanced skill on MATLAB/Simulink toolboxes, C/C++
3) Advanced skill in MS office software.

Experience & Knowledge:

1) 5+ years of working experience in application software development of automotive inverter products.
2) C programming and MBD design experience on application software development based on ARM core, TI, Infineon Microcontroller.
3) Familiar with E-Drive system, PMSM motor characteristics and calibration. Understand main VCU control strategy in vehicle system and performance tuning.

4) Well experienced in customized functionality, e.g. CAN communication, fault management, diagnostic, torque control strategy etc.
5) Well knowledge in different software test environment, MIL, SIL, HIL, Test bench etc.
6) Familiar with Automotive software development process based on ASPICE and understand IS026262 functional safety.
7) Experience in draft software requirement specification and management.
8) Ability to interact with various levels of management and work independently
9) Ability to work in a fast paced, multi-tasking, high volume environment.
10) Highly detailed and organized
11) Ability to meet assigned deadlines
12) Strong analytical and problem-solving skills
13) Strong communication skills – written and verbal.
14) Must be able to work independently.
15) Must be able to interact and problem solve with customers.

Comprehensive Benefits Package

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